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1 Special issue on spatial database systems: Management of multidimensional discrete data

Peter Baumann

October 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 3 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(2.30 MB) Additional Information: full citation, abstract, references, citings

Spatial database management involves two main categories of data: vector and raster data. The former has received a lot of in-depth investigation; the latter still lacks a sound framework. Current DBMSs either regard raster data as pure byte sequences where the DBMS has no knowledge about the underlying semantics, or they do not complement array structures with storage mechanisms suitable for huge arrays, or they are designed as specialized systems with sophisticated imaging functionality, but n ...

Keywords: Multimedia database systems, image database systems, spatial index, tiling

2 Posters: Image classification using hybrid neural networks

Chih-Fong Tsai, Ken McGarry, John Tait

July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in informaion retrieval SIGIR '03**

Publisher: ACM Press

Full text available: pdf(199.31 KB) Additional Information: full citation, abstract, references, citings, index terms

Use of semantic content is one of the major issues which needs to be addressed for improving image retrieval effectiveness. We present a new approach to classify images based on the combination of image processing techniques and hybrid neural networks. Multiple keywords are assigned to an image to represent its main contents, i.e. semantic content. Images are divided into a number of regions and colour and texture features are extracted. The first classifier, a self-organising map (SOM) clusters ...

Keywords: content-based image retrieval, image indexing/classification, neural networks

3 A performance comparison of quadtree-based access methods for thematic maps